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### (54) Multilayer coating film formation process

(57) A process to form a multilayer coating film, which is excellent in smoothness and capable of preventing a generation of popping even in case of a thick coating, characterized by that after a cationic electrodeposition coating is coated and cured by heating, an intermediate coating, comprising polymerizable unsaturated compound, photopolymerization initiator, thermal

polymerization initiator, and further optionally pigment and/or polyester resin and crosslinking agent, is coated, and said coating film is cured by irradiation with an actinic ray, and then a thermocurable top coating is coated and cured by heating, is disclosed.

EP 0 914 875 A3



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## EUROPEAN SEARCH REPORT

Application Number  
EP 98 12 0140

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
A	US 5 432 005 A (TANIGAMI HAJIME ET AL) 11 July 1995 (1995-07-11)	B05D7/00
A	US 4 888 244 A (MASUBUCHI YOICHI ET AL) 19 December 1989 (1989-12-19)	
The present search report has been drawn up for all claims		
Place of search	Date of completion of the search	Examiner
MUNICH	28 August 2002	Polesak, H
CATEGORY OF CITED DOCUMENTS		
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons B : member of the same patent family, corresponding document

**ANNEX TO THE EUROPEAN SEARCH REPORT  
ON EUROPEAN PATENT APPLICATION NO.**

EP 98 12 0140

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.  
The members are as contained in the European Patent Office EDP file on  
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28-08-2002

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